

[54] CONDUCTING POLYMERS DERIVED FROM FLUORINATED THIOPHENES

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[58] Field of Search 526/256; 528/377, 380

[56] References Cited

U.S. PATENT DOCUMENTS

3,052,691 9/1962 Krespan .
3,197,480 7/1965 England .
4,711,742 12/1987 Jen 524/609

FOREIGN PATENT DOCUMENTS

0203438 12/1986 European Pat. Off. .

2624126 6/1989 France .

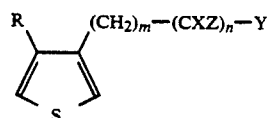
OTHER PUBLICATIONS

William J. Middleton, "New Fluorinating Reagents, Dialkylaminosulfur Fluorides", *Journal of Organic Chemistry*, vol. 40, pp. 574 to 578 (1975).

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[57] ABSTRACT

Substituted thiophenes of general formula:



in which:

R represents hydrogen atom or an aliphatic group containing from 1 to 4 carbon atoms,

X and Z may be identical or different and represent a hydrogen atom or a fluorine atom,

Y represents an at least partially fluorinated aliphatic or aromatic group,

m represents an integer equal to or greater than 1, and n represents an integer such that $0 \leq n \leq 12$.

The invention also relates to the electrically conducting polymers containing recurring units derived from monomers chosen from the substituted thiophenes.

9 Claims, 1 Drawing Sheet

